

Abstract Of The Disclosure

5 A fuel injector has a piezoelectric, electrostrictive or magnetostrictive actuator, a valve needle, which is in operative connection with the actuator and acted upon with a restoring force by a valve spring in a closing direction to actuate a valve-closure member; and an hydraulic coupler which encompasses a piston that at least partially engages in a receiving opening and forms a coupler gap therewith, which is filled with an hydraulic fluid; a cavity being formed in the piston, which is open toward the coupler gap and at least partially filled with the hydraulic fluid and forms a compensating chamber.